Saskatchewan
Ministry of
Agriculture

RESEARCH

FINAL REPORT

ADF

AGRICULTURE DEVELOPMENT FUND

20050754

HEMP FOR HORSES NUTRITION PANEL

Funded by: The Agriculture Development Fund

July 2010

Prepared by: Lifespan Pharma Inc.

PHARMA
Incorporated

Road 707 South, SW34-01-16-W2nd Meridian
Box 33, Beaubier, Sask., S0C-0H0

Saskatchewan Agri-Value Initiative (SAVI) Final Report and Expenditure Statement

Project Number: 20050754

Project Title: Hemp for Horses Nutrition Panel

Prepared by: Morris Johnson, Chief Technology Officer

Date May 02, 2010

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Abstract:

Project Objectives:

1) Analysis of sample representative of 6,000 pounds – Lot #01

2) Analysis of sample representative of 16,000 pounds – Lot #02

3) Analysis of sample representative of 6,000 pounds – Lot #03

4) Printing of 500 stickers to retrofit packaged product

To comply with Canadian and USA regulations for import into the USA labeling which is supported by analyses is required.

Nutrition Panel information as well as verification of THC content of product, heavy metals profile, microbial analyses and free fatty acid (rancidity related to shelf life best before dating) are required at the USA port of entry by border protection, USDA, FDA or DEA officials for entry of horse feed.

Conversion of this animal product into human product absolutely requires that this information be on hand or on the label for all products.

This project has resulted in the creation of this information. Laboratory Services at Sun West in Saskatoon, RPC in New Brunswick, SGS in Vancouver, and Full Spectrum Laboratories in Denver were used. Labels were printed at the Radville Star and other print locations.

This project has enabled label information to have supporting lab analyses.

Introduction and Description of Project Objectives Fulfillment

Lifespan Pharma Inc. (LPI) has created a field to consumer (both animal and human) market for hemp. The founders Morris Johnson and the Johnson Family, Beaubier Saskatchewan and Silas Kanning, Plentywood Montana have added several shareholders, 1%-Rod Fisher/Fisher Seeds Dauphin Manitoba, 1% Steve Burnside /Compounding pharmacist and owner of NaturalHealthShoppe Minot, North Dakota, 3% Terry Grossman MD, Clinician, Medical Lecturer, Author and Businessman Denver, Colorado.
As well we have several advisory board members. We have both animal and human grade product in the USA market. Our product has patent protection pending with CAD patent 2,636,594 as well as 3 CAD applied for Trademarks.

I clipped a bio I will be using when presenting on behalf of Lifespan Pharma Inc at a Conference at Harvard University this June 12/13. (http://hplussummit.com/johnson.html) At this Conference we are announcing a new human product line which is derived from our Hempforhorses ingredient. Because of the expanded uses and a long standing problem the consumer has to differentiate hemp and marijuana we have changed the name of the ingredient to the trademarked word CANTERPENE. Like Rapeseed did when LEAR was renamed Canola (Canadian oleic acid source) we renamed our patented hemp ingredient Canterpene (Canadian terpene source). We own the name and thus unlike hemp it cannot be used by pot people and thus have an unclear brand identity.

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1) Analysis of sample representative of 6,000 pounds – Lot #01

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3) Analysis of sample representative of 6,000 pounds – Lot #03

4) Printing of 500 stickers to retrofit packaged product

Samples of recent labels, depending on the market, will have some of the analyses on the product and some in information accompanying the product. The samples attached are in the process of revision but indicate the last shipped product labels. Dr Grossman begins a clinical trial 03 May 2010. By the Canterpene launch date of June 12 a new label which has a nutrition panel and reference to the information on the other analyses will be available. (http://hplussummit.com/program.html)

Up to date information will be on the PowerPoint I present at this conference. The proceedings will be streamed live, video archived with PowerPoint downloadable.

This project was supported by the Saskatchewan Agri-Value Initiative (SAVI) under the Canada-Saskatchewan Growing Forward bi-lateral agreement

LIFESPAN

EXTEND

NATURALLY

CANTERPENE

Lifespan Pharma Inc.
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Box 33, Beaubier, Saskatchewan, Canada
S0C-0H0; Lifespan.Pharma.Inc (at) gmail.com
Attn: Morris Johnson, CTO; 701-240-9411

Ingredient: Finely milled *hempseed*

Produced and processed under

Health Canada licenses L0072, J0047

Product of Canada

For export only

Nutrition Panel – (per 100 grams)

444 Calories / 9.02 g Moisture

19.69 g Protein / 22g Total Fat

(Unsaturated fat 20g, Saturated fat 2g)

(Trans Fat <.05g / Cholesterol <.5g)

Carbohydrates 42g / Fibre 41g

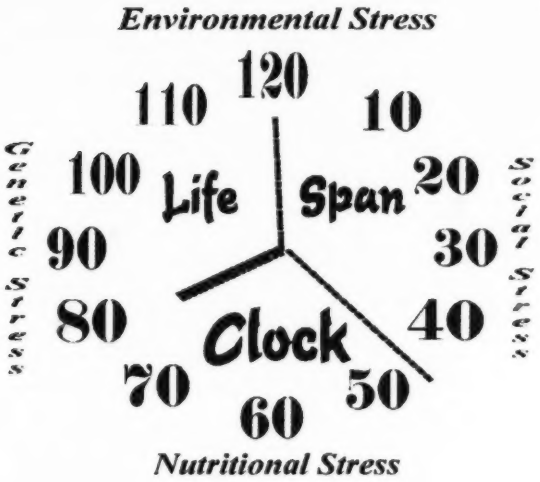
Sugars 0.8g / Ash 7g

Vitamin A 202 IU / Vitamin C 1mg

Calcium 1110mg/Iron 22mg/ Sodium <10mg

Net weight 454g/ 1.0 Pounds

Extend Lifespan *Naturally*



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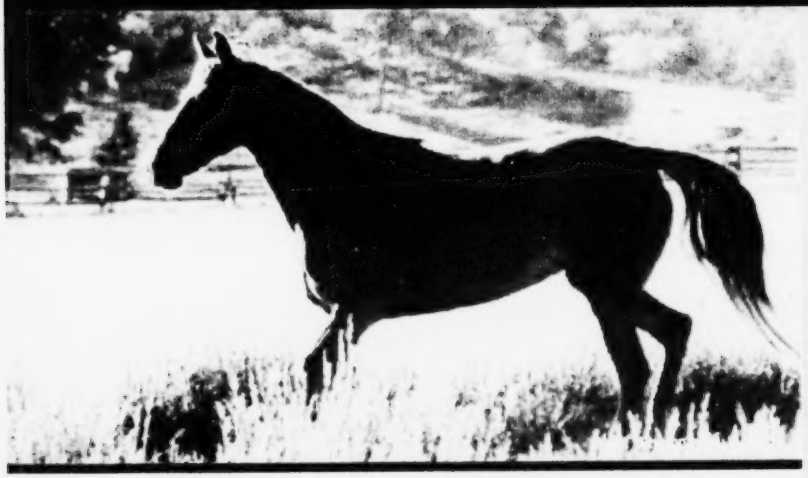

Product Info

HEMP FOR HORSES is 100% milled hemp.

Nutritional Analysis of *Hemp for Horses*, *Hemp for Pets* and *Hemp for Humans* (Sunwest Labs) *per 100g*	
Calories	444
Moisture	9.02g
Protein	19.69g
Total Fat	22g
Unsaturated Fat	20g
Saturated Fat	2g
Trans Fat	<0.05g
Cholesterol	<0.5g

Carbohydrates	42g
Fiber	41g
Sugars	0.6g
Ash	7g
Vitamin A	202 IU
Vitamin C	1mg
Calcium	1110mg
Iron	22mg
Sodium	<10mg

***Hemp for Horses* Fatty Acid Profile (%)** using testing method AOCS Ce 1-62* (Sunwest Labs):	
Omega-3 Alpha Linolenic Acid (ALA)	17.80%
Omega-6 Linoleic Acid (LA) Gamma Linolenic Acid (GLA)	53.08% 3.14%
Omega-9 Oleic Acid	12.57%
Tridecanoic Acid	0.13%
Myristic Acid	0.06%
Palmitic Acid	6.89%
Palmitoleic Acid	0.13%
Heptadecanoic Acid	0.06%

Stearic Acid	2.90%
Elaidic Acid	0.08%
Arachidic Acid	0.43%
Eicosenoic Acid	1.10%
Eicosadienoic Acid	0.10%
Erucic Acid	0.75%
Eicosatrienoic Acid	0.08%
Arachidonic Acid	0.08%
Nervonic Acid	0.39%
Decosadienoic Acid	0.23%

PhytochemicalProfile (Generic hemp):

Cannabinoids 70 (CBG (Cannabigerol) type 7; CBC(Cannabichromene) type 5; CBD (Cannabidiol) type 7; D9-THCtype 9; D8-THC type 2; CBL (Cannabicyclol)type 3; CBE (Cannabielsoin) type 5; CBN (Cannabinol) type7; CBND (Cannabindiol) type 2; CBT (Cannabitriol) type 9; Misc Cannabinoids 14)

Non-cannabinoidphenols 25 , Vitamins 1 , Pigments 2 , Elements 9

Otherconstituents: 419 known: nitrogenous compounds (27),amino acids (18), proteins (3), enzymes (6), glycoproteins (2), sugarsand related compounds (34), hydrocarbons (oils) (50), simplealcohols (7), simple aldehydes (12), simple ketones (13), simple acids(20), fatty acids (23), simple esters (12), lactones (1), steroids (phytosterols and phytostanols) (11), terpenes (120), non-cannabinoidphenols(25), flavonoids

Total: 489 *known* hemp components

Hemp for Horses

Daily Dosages for Horses, Other Equines and Small Livestock:

Maintenance: 1 scoop per 500 pounds

Therapeutic: up to 1 scoop per 100 pounds

Example: A 1000 pound horse

Maintenance: 2 scoops

Therapeutic: up to 10 scoops

Therefore, a 7 lb bag of hemp should last a 1000 pound horse 25 days on a Therapeutic dosage and 128 days on a maximum Maintenance dosage.

Hemp for Pets **(container)**

Daily Dosages for Pets:

Maintenance dosage: 1/4 tsp per 10 lbs

Daily therapeutic dosage: up to 1/2 tsp per 10 lbs

Birds, rabbits, gerbils, hamsters, guinea pigs can be fed free choice.

Example for daily maintenance dose:

Small pets (20 lbs): 1/2 tsp (approx 14-month supply)

Medium pets (40 lbs): 1 tsp (approx 7-month supply)

Large pets (60 lbs): 1 1/2 tsp (approx 5-month supply)

X-Large pets (80 lbs): 2 tsp (approx 3.5-month supply)

Hemp for Pets **(capsules)**

Daily Dosages for Pets:

Maintenance dosage: 1 capsule per 30 pounds

Daily therapeutic dosage: 1 capsule per 7 pounds

Note: Horses and pets do not necessarily need to be on a therapeutic dosage to see results. These are guidelines, please contact us for more details.

Hemp for Humans **(capsules)**

Daily Dosages:

Maintenance dosage: 1 capsule per 30 pounds

Daily therapeutic dosage: 1 capsule per 7 pounds

Please contact us if your commercial operation or research program would like to use *Hemp for Horses* or *Hemp for Pets* in controlled studies.

Note to Retailers/Distributors: If you are a natural/holistic neighborhood pet store wishing to expand your line of natural pet